

Claims

1. (Currently amended) A method, ~~for classifying an unknown bioactive condition,~~
comprising:
generating a ~~scenario~~ scenario-to-be-classified by exposing a first biological system to two or
more bioactive conditions, including ~~[[the]]~~ an unknown bioactive condition;
representing a response of the first biological system, or portion thereof, to the bioactive
conditions, ~~where representing the response of the system comprises determining data sufficient to~~
~~generate by generating~~ a feature space vector;
using a database, the database comprising scenarios where each scenario was generated by
exposing a second biological system to one or more bioactive conditions, the scenario being
represented as feature space vector data;
determining software expert parameters, where the expert encodes a function that maps a
feature space vector to a scenario;
weighting the expert parameters;
attempting to classify ~~classifying~~ a scenario by database comparison using the software expert;
and
outputting a classification result to a user.

2. (Original) The method according to claim 1 where the system comprises living cells.

Claims 3-8 (Canceled).

9. (Currently amended) The method according to claim ~~[[7]]~~ 1 where transforming the
data comprises:

determining expert parameters based on extracted data, where experts encode functions that
map the feature space vector to a set of scenarios; and
tuning the integrated expert.

10. (Previously presented) The method according to claim 9 where tuning the integrated
expert comprises adaptive expert calibration.